

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|  |   |  |
|--|---|--|
| Applicant's or agent's file reference<br><b>Green 1-22-1</b> | <b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. |  |
| International application No.<br><b>PCT/GB 98/ 01721</b>     | International filing date (day/month/year)<br><b>12/06/1998</b>   | (Earliest) Priority Date (day/month/year)<br><b>14/06/1997</b> |
| Applicant<br><b>NORTHERN TELECOM LIMITED et al.</b>          |   |  |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a **nucleotide and/or amino acid sequence listing** and the international search was carried out on the basis of the sequence listing
  - ☐ filed with the international application.
  - ☐ furnished by the applicant separately from the international application,
    - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
  - ☐ Transcribed by this Authority
4. With regard to the title, ☒ the text is approved as submitted by the applicant
  - ☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,
  - ☒ the text is approved as submitted by the applicant
  - ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.
6. The figure of the **drawings** to be published with the abstract is:
  - Figure No. 1 ☒ as suggested by the applicant. ☐ None of the figures.
  - ☐ because the applicant failed to suggest a figure.
  - ☐ because this figure better characterizes the invention.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 98/01721

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q11/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | ZAHARIADIS T ET AL: "Internet access over residential ATM networks"<br>BROADBAND STRATEGIES AND TECHNOLOGIES FOR WIDE AREA AND LOCAL ACCESS NETWORKS, BERLIN, GERMANY, 10-11 OCT. 1996, vol. 2953, pages 98-106, XP002079985<br>ISSN 0277-786X, Proceedings of the SPIE - The International Society for Optical Engineering, 1996, SPIE-Int. Soc. Opt. Eng, USA | 1,2,7,8               |
| Y          | * sections 3, 4 *<br>see figures 3,4<br>---<br>-/--   | 3,4,9                 |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## ° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

8 October 1998

Date of mailing of the international search report

21/10/1998

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 98/01721

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| Y          | BALDWIN J H ET AL: "AAL-2 - A NEW ATM ADAPTION LAYER FOR SMALL PACKET ENCAPSULATION AND MULTIPLEXING"<br>BELL LABS TECHNICAL JOURNAL,<br>vol. 2, no. 2, 21 March 1997, pages 111-131, XP000695171<br>see page 116, column 1, line 6 - page 117, column 1, line 9; figure 4<br>---   | 3,4,9                 |
| A          | KISHIMOTO R: "AGENT COMMUNICATION SYSTEM FOR MULTIMEDIA COMMUNICATION SERVICES"<br>PROCEEDINGS OF IEEE INFOCOM 1996.<br>CONFERENCE ON COMPUTER COMMUNICATIONS, FIFTEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. NETWORKING THE NEXT GENERATION<br>SAN FRANCISCO, MAR. 24 - 28, 1996,<br>vol. 1, no. CONF. 15, 24 March 1996, pages 10-17, XP000622289<br>INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS<br>* sections 5.2, 5.3, 5.4, 6 *<br>see figures 10,12<br>--- | 1,7,8                 |
| A          | WO 97 19565 A (SAMSUNG INFORMATION SYSTEMS AM) 29 May 1997<br>see page 3, line 1 - line 24<br>---   | 4,8                   |
| A          | THOM G A: "H. 323: THE MULTIMEDIA COMMUNICATIONS STANDARD FOR LOCAL AREA NETWORKS"<br>IEEE COMMUNICATIONS MAGAZINE,<br>vol. 34, no. 12, December 1996, pages 52-56, XP000636454<br>* the whole document *<br>---  | 1-9                   |
| A          | MOWAFFAK T MIDANI ET AL: "INTRODUCING THE V PROTOCOL FOR THE INTERACTIVE VIDEO NETWORK"<br>ANNUAL REVIEW OF COMMUNICATIONS,<br>vol. 49, 1 January 1996, pages 589-598, XP000620819<br>see page 589, column 2, line 4 - page 591, column 1, line 40<br>-----   | 1,7,8                 |

**Information for patent family members**

PCT/GB 98/01721

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| WO 9719565 A                              | 29-05-1997          | EP 0862842 A               | 09-09-1998          |